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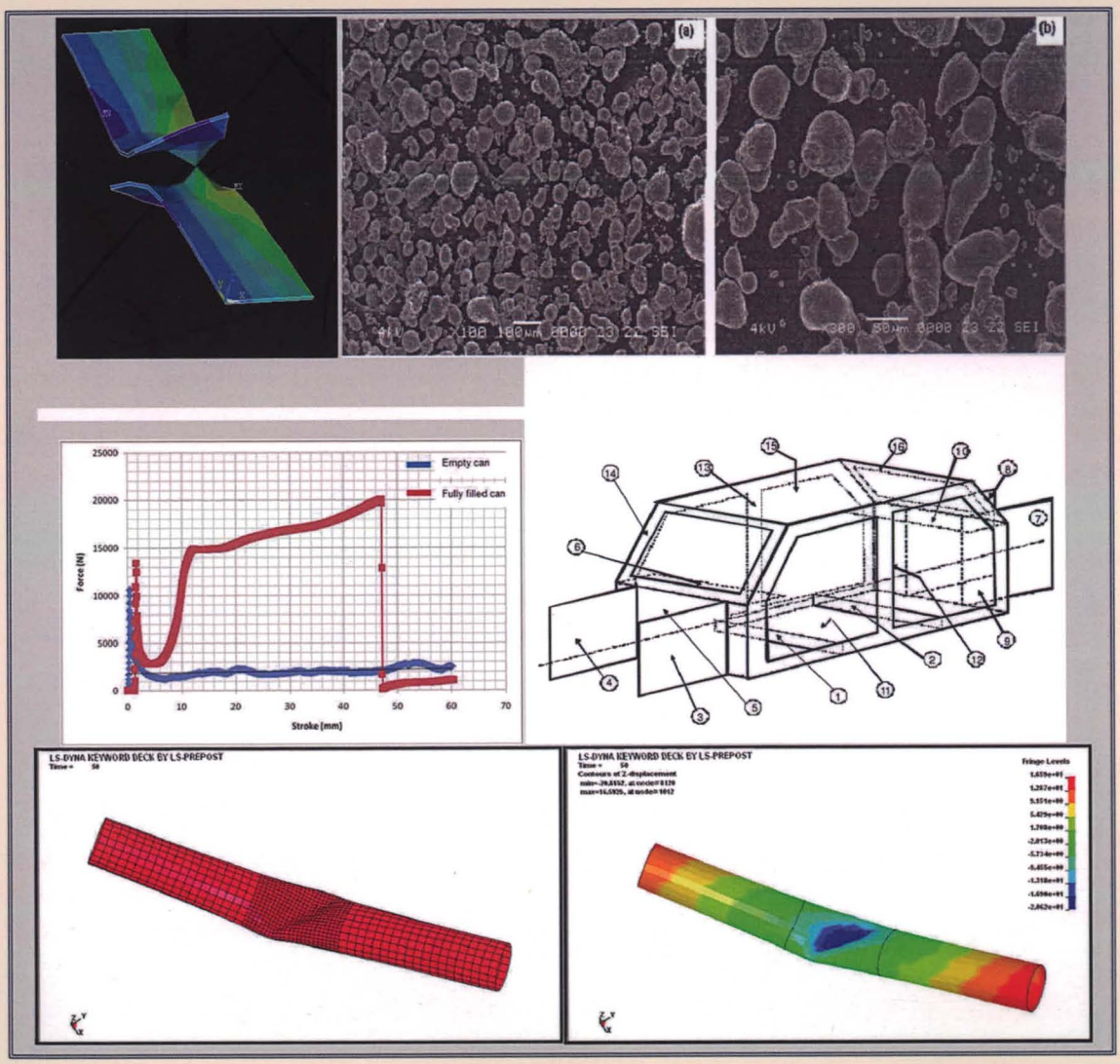

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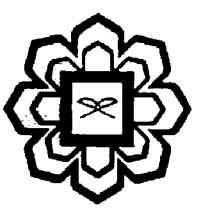

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EXPERIMENTAL SETUP OF EMPTY AND WATER FILLED CYLINDRICAL SHELL BUCKLING

Qasim H. Shah, Hasan M.Abid, Adib B. Rosli

1. INTRODUCTION

The objective of this experiment is to find out the types and properties of the materials used in this study. This can be known by measuring the mechanical properties and observing the characteristic of the material.

2. MATERIAL PREPARATION

The type of material used in this experiment was Aluminum alloy. Aluminum alloys are mixtures of aluminum with other metals (called an alloy), often with copper, zinc, manganese, silicon, or magnesium. They are much lighter and more corrosion resistant than plain carbon steel, but not as corrosion resistant as pure aluminum. The test specimen is shown in Figure 1.

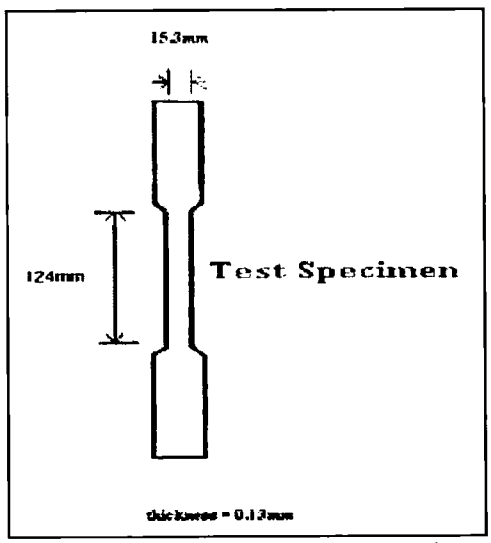

Figure 1 Aluminum alloy test specimen